

**U.S. National Work Group
for the
Development of Commercial Hydrogen Measurement Standards**

June 17, 2009

**Joint Device Standards Subcommittee (DSS) and Fuel Specifications Subcommittee (FSS)
Teleconference/Webconference Meeting**

AGENDA

Time: Wednesday, June 17, 2009/3:00 p.m. - 5:00 p.m. EDT-USA & Canada (GMT - 4:00)

Meeting Number: 649 789 403

Password: hydrogen

This meeting is sponsored by the U.S. Department of Energy and U.S. Department of Commerce's National Institute of Standards and Technology.

This meeting is hosted by CSA America, Inc.

Purpose: The U.S. National Work Group (USNWG) is meeting to continue its work to promote the establishment of a comprehensive set of (1) design, accuracy, installation, use, and method of sale requirements, (2) test procedures, and (3) quality standards for hydrogen fuel and equipment used in hydrogen measurements for vehicle and other refueling applications.

ATTACHMENTS:

- Appendix A** Draft Summary of the April 2009 USNWG Meeting (Under Development)
- Appendix B** Draft 4.1 Recommendations for Retail and Wholesale Application Requirements
- Appendix C** Analysis of Paragraphs That Do Not Apply to Wholesale/Bulk Deliveries
- Appendix D** Current NIST Handbook 44 Retail/Wholesale Code Requirements

AGENDA TOPICS

3:00 P.M. (EDT)

(1) Welcome Current/New Members and Roll Call

New members of the USNWG and visitors will be welcomed, the meeting is called to order, time for a roll call, and the meeting's purpose reviewed. The collaborative work by the meeting's sponsors will be recognized. New participants will be invited to provide their name, affiliation, and state their specific area of interest in the work to develop hydrogen measurement standards.

(2) Administrative Business

The USNWG will discuss and decide on procedures for managing and documenting its technical work. The following item(s) will be addressed:

(a) Approve the Summary of the April 2009 USNWG Meeting (see Appendix A – Under Development)

Since the draft summary of the April 28-30, 2009 USNWG in-person meeting is still under development, the USNWG will be polled for its approval of the summary.

(3) Development of Device Standards and Test Procedures for Commercial Hydrogen Measurement

The USNWG agreed the June 17th teleconference/webconference meeting discussions will focus on retail and wholesale applications in the NIST Handbook 44 Hydrogen Gas-Measuring Devices Code. The USNWG is aware that bulk deliveries (often categorized as wholesale deliveries) are considered commercial applications and as such are not exempt from NIST Handbook 44 code requirements. In many wholesale operations contractual agreements may exist between the buyer and seller. A contract cannot be used to circumvent the law. The same regulators of retail equipment will be called on to arbitrate any disputes about wholesale deliveries.

The weights and measures community which is unfamiliar with hydrogen will look to the USNWG for their expertise and guidance on both retail and wholesale hydrogen refueling applications. Although the USNWG set out provide the community with legal metrology requirements that address retail fueling systems, it may find the best use of its resources might be to address this possible gap in the code now, rather than develop a separate code for wholesale devices at some later date. The USNWG may wish to consider requirements for addressing both retail and wholesale applications that already exist in corresponding measuring device codes.

The DSS Technical Advisor will present new draft requirements (see Appendix B) to the USNWG that are intended to address both retail and wholesale applications. These draft requirements were developed using the same approach other measuring device code sections have for both applications (see Appendix D). The analysis of draft code paragraphs that do not apply to wholesale applications now includes a new column outlining some strategies for addressing this issue (see Appendix C). The USNWG will be asked to review these documents to determine if they represent viable options for resolving these issues.

(4) Next Steps/Tasks

The USNWG will discuss upcoming events and the next steps in the weights and measures standards development process that may affect its work to fully develop hydrogen measurement standards and test procedures. Projects and target dates will also be identified to ensure that the USNWG meets its goals. A

schedule of upcoming weights and measures regional and national meetings are included in the table below for the USNWG discussions.

Upcoming Regional Associations and National Weights and Measures Meetings	
Central Weights and Measures Association http://www.ncwm.net/central Interim Meeting September 13-16, 2009 Rock Island, Illinois – Holiday Inn Contact: Jonelle Brent (jonelle.brent@illinois.gov)	Northeastern Weights and Measures Association http://www.newma.us Interim Meeting October 14-15, 2009 TBD Contact: James Cassidy (jcassidy@cambridgema.gov)
Western Weights and Measures Association http://www.westernwma.org Annual Meeting September 20-24, 2009 Las Cruces, New Mexico – Hotel Encanto de Las Cruces Contact: Joe Gomez (jgomez@nmda.nmsu.edu)	National Type Evaluation Technical Committee (NTETC) Measuring Sector http://www.ncwm.net Meeting October 4-7, 2009 Clearwater Beach, Florida – Hilton Clearwater Beach Contact: NCWM HQ (info@ncwm.net)
Southern Weights and Measures Association http://www.ncwm.net/southern Annual Meeting October 4-7, 2009 Clearwater Beach, Florida – Hilton Clearwater Bch. Contact: Steve Hadder (hadders@doacs.state.fl.us/standards)	National Conference on Weights and Measures, Inc. (NCWM) 2010 Interim Meeting: January 24-27, 2010 Hilton Nashville Downtown - Nashville, TN Contact: NCWM HQ (info@ncwm.net) 2010 Annual Meeting: July 11-15, 2010 The Crown Plaza, St. Paul Riverfront - St. Paul, MN Contact: NCWM HQ (info@ncwm.net)

(5) Next Meeting(s)

(a) Upcoming August 2009 Meeting Status

In April 2009, the USNWG Subcommittees rescheduled the August 2009 meeting. The new date and location for that upcoming in-person meeting is:

Date(s)	Location
August 11-13, 2009 August 11 th 1:00 p.m. – 5:00 p.m. EDT FSS Meeting; August 12 th & 13 th 8:30 a.m. – 5:00 p.m. EDT DSS Meeting	NIST 100 Bureau Drive Bldg. 222/Room B263 Gaithersburg, MD 20899

5:00 P.M. (EDT) Meeting Adjourns